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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/828,819	04/21/2004	Nikolaos Koudas	1209-29	7281
7590 03/28/2007 Salvatore J. Abburzzese HOFFMAN & BARON, LLP 6900 Jericho Turnpike Syosset, NY 11791		ה	EXAMINER VY, HUNG T	
			ART UNIT	PAPER NUMBER
•		,	2163	
SHORTENED STATUTORY	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		03/28/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary Examine	Art	JDAS ET AL.			
Office Action Summary Examine		Unit			
	v 216:	'			
Hung T. \	-				
The MAILING DATE of this communication appears on th Period for Reply	cover sheet with the corres	spondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO WHICHEVER IS LONGER, FROM THE MAILING DATE OF THE ACTION OF THE MAILING DATE OF THE STATE OF THE MAILING DATE OF THE STATE OF THE MAILING DATE OF THE STATE OF THE MAILING DATE O	HIS COMMUNICATION. ent, however, may a reply be timely filed. Il expire SIX (6) MONTHS from the mail lication to become ABANDONED (35 to 1).	d illing date of this communication. U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 16 January 200	· 7.				
2a)⊠ This action is FINAL . 2b)☐ This action is r					
· 					
closed in accordance with the practice under Ex parte Qu	•				
Disposition of Claims					
4)⊠ Claim(s) <u>2</u> is/are pending in the application.	·				
4a) Of the above claim(s) is/are withdrawn from co	nsideration.				
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>2</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election in	equirement.				
Application Papers					
9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is require					
11) The oath or declaration is objected to by the Examiner. N	ote the attached Office Action	on or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority un	der 35 U.S.C. § 119(a)-(d) d	or (f).			
a) ☐ All b) ☐ Some * c) ☐ None of:					
 Certified copies of the priority documents have been 	n received.				
Certified copies of the priority documents have been	n received in Application No	0			
3. Copies of the certified copies of the priority docum		this National Stage			
application from the International Bureau (PCT Ru	• • • • • • • • • • • • • • • • • • • •	·			
* See the attached detailed Office action for a list of the cert	fied copies not received.				
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summary (PTO-				
2)	Paper No(s)/Mail Date 5) Notice of Informal Patent A				
Paper No(s)/Mail Date 6) Other:					

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DETAILED ACTION

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1. As of entry of the amendment filed on 01/16/2007, claim 2 is pending in this application as result of the cancellation claim 1 and the addition claim 2. Upon reconsideration, the rejection of claim 1 by Jagadish et al. mailed on 10/12/2006 is hereby withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Cohen (US Pub. 2001/0013035).

Drawings

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "providing at least two relations", "normalizing each weight vector", "comparing each weight vector", "returning a text join", e.g. must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will

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be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 101

3. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claim 1 is rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

In claim 2 recites a system, however the components of the system are merely software per se. A system claims much recite physical structure thus enabling it to be properly categorized in one of the statutory categories of invention. Since the components of the system claims 2 are software per se and do not contain any physical components, the systems cannot be categorized in one of the statutory categories of invention and is thus nonstatutory.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 2 is rejected under 35 U. S. C. § 102 (b) as being anticipated by Cohen (US Pub. 2001/0013035).

With respect to claim 2, Cohen discloses a system for string matching (i.e., "general similarity metric for any pairs of strings" (0020)) across multiple relations in a relational database management system, the method comprising the steps of:

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- a) providing at least two relations R1 and R2(i.e., "set of relations $\{p_1,...p_n\}$ " (0056)),
- b) defining at least one tuple t1 and t2 (i.e., "Associated with each relation p is set of tuples call tupes (p)" (0056)) for each relation, R1 and R2 (i.e., "Associated with each relation p is set of tuples call tupes (p)" (0056)),
 - c) map each tuple to a weight vector vt (i.e., "Every tuple $(v_1, ..., v_k) \in tuples (p)$ " (0056))
- d) normalizing each weight vector, (i.e., "this vector is then normalized to unit length, leading to the following weight vi" (0050))
- e) comparing each weight vector to a predetermined similarity threshold θ (i.e., "it is also assumed that a score is associated with every tuple in p" (0056) or "A similarity literal is written X~Y, where X and Y are variables" (0057)),
- f) returning a text-join (i.e., "The Join of the relations R and S might be approximated by the query" (0058)) for any relations having a similarity threshold wherein $0 \le \theta \le 1$ (i.e., "This score will always be between zero and one... the score of every tuple in a base relation will be one" (0056) or (0063-0064).

Response to Arguments

5. Applicant's arguments with respect to claim 1 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

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MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hung T. Vy whose telephone number is (571) 2721954. The examiner can normally be reached on 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don K. Wong can be reached on (571)2721934. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DON WONG
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

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Hung Vy Art Unit 2163

March 20, 2007.

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